



We Support with Honour
Nous appuyons avec honneur

CANOSCOM COMSOCAN
Canadian Operational Support Command Commandement du soutien opérationnel du Canada

NASA Ames Alaska State Workshop “Cargo Airships for Northern Operations” A Canadian Forces Perspective

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Dr Ahmed Ghanmi
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Canada

Canada's North





- Canada

Canada First Defence Strategy



- National Defence primarily contributes to the sovereignty pillar of the Northern Strategy through the ***Canada First Defence Strategy***
- Directs the Canadian Forces to
 - Demonstrate a visible presence in the region
 - Have the capacity to exercise control over and defend our Arctic territory
 - Provide assistance to other government departments and agencies when called upon

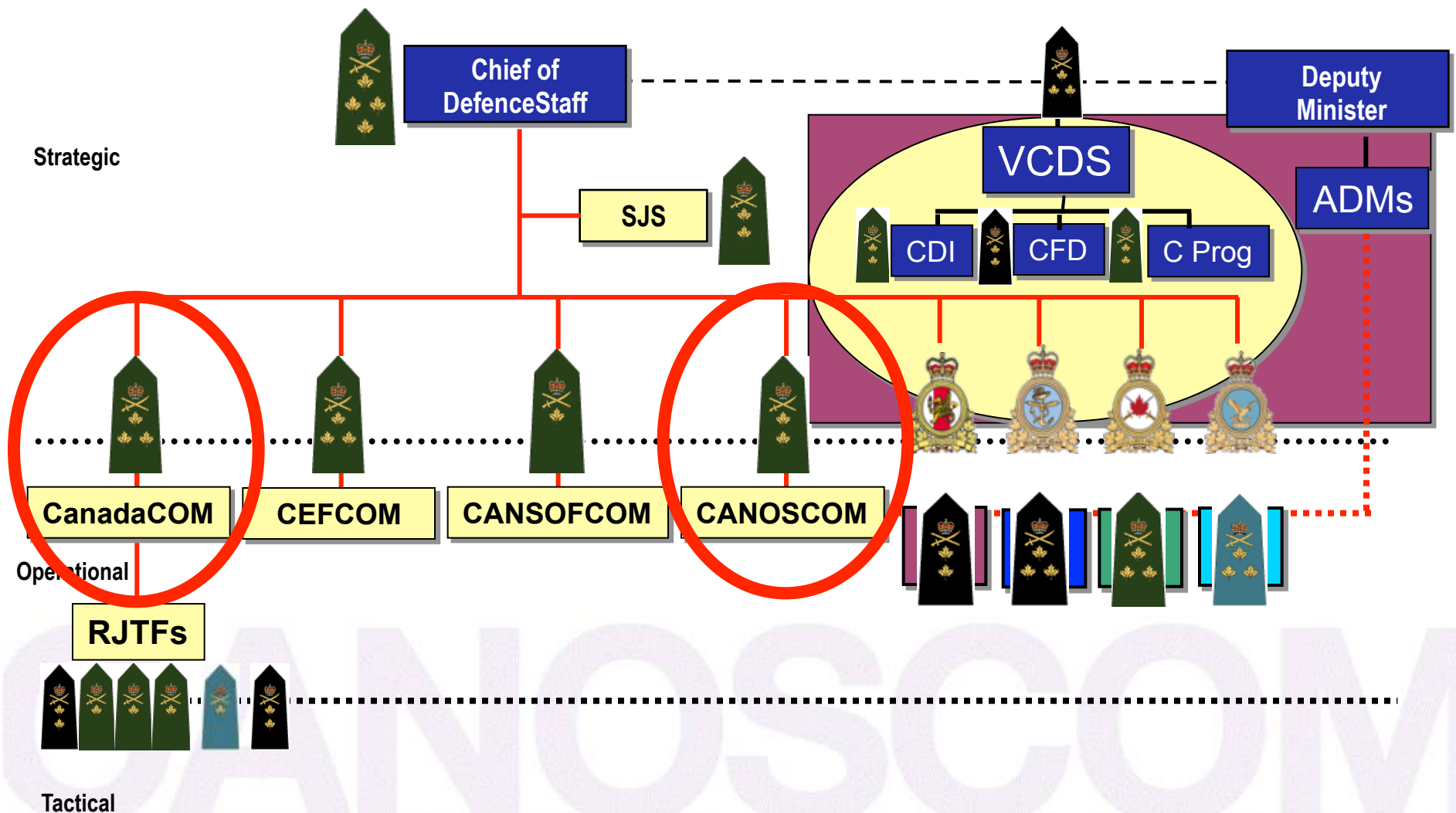


Whole of Government Approach



- Aboriginal Affairs and Northern Development Canada
- Royal Canadian Mounted Police
- Canadian Coast Guard
- Fisheries and Oceans Canada
- Environment Canada
- Department of Foreign Affairs and International Trade
- Public Safety Canada
- Natural Resources Canada
- Citizenship and Immigration Canada
- Canada Border Services Agency
- Parks Canada
- Transport Canada
- NAV Canada
- National SAR Secretariat
- Transportation Safety Board Canada
- Health Canada
- Public Health Agency Canada

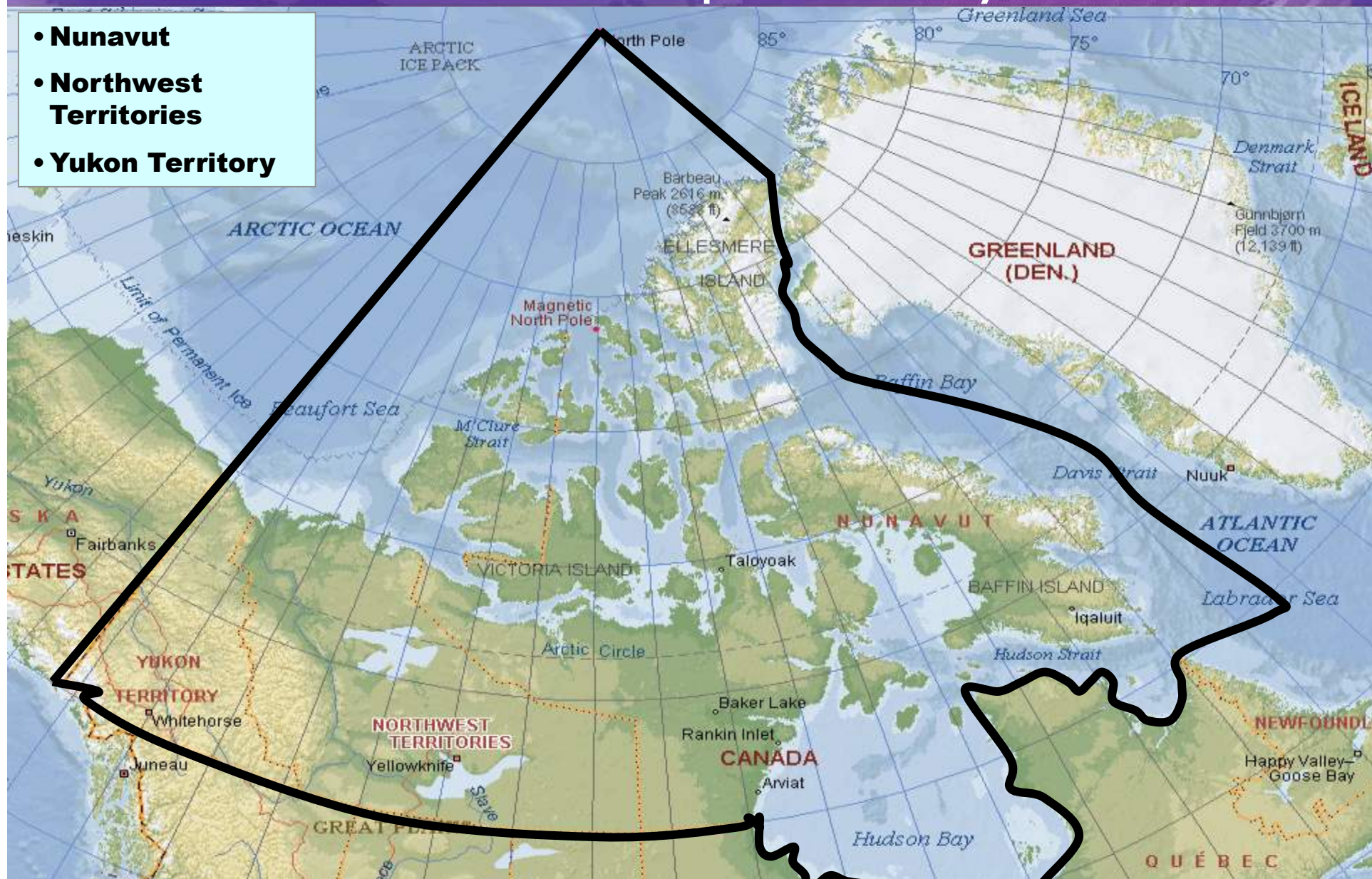
Canadian Forces



Joint Task Force (North) Area of Responsibility



- **Nunavut**
- **Northwest Territories**
- **Yukon Territory**



Canadian Forces Resources in the North



- Joint Task Force (North) HQ & Detachments
- Canadian Rangers
- 440 Transport Squadron
- North Warning System
- Forward Operating Locations
- CFS Alert



Canadian Forces Rangers



Rangers: 4200 (+)
Ranger Patrol Groups: 5
Patrols: 163
Communities: 57



Northern Operations Required Capabilities



● Key Tasks

- Conventional defence
- SAR
- Major air disaster response (MAJAID)
- Assistance to Law enforcement agencies
- Humanitarian assistance/ Disaster relief
- Assistance to Other Government Departments (OGD)

● Mission Effects

- Situational awareness
- Presence
- Response

● Key enablers

- Command and Control
- ***Operational Support***



Arctic Operations



Op NUNALIVUT

High Arctic Sovereignty
Ops



Op NUNAKPUT

Western Arctic Sovereignty
Ops

Op NANOOK

Sovereignty Ops
(Aug)



In Support of Canada Command



Northern Sovereignty Operations



Annual Resupply of CFS Alert



Challenges in the North



- Mindset change – The Canadian Forces are normally the Force of last resort. Not in the North!
- Rate of environmental change and impacts on operations
- Coordination among the many stakeholders from many nations
- ***Large area with limited infrastructure to support operations***
- ***Sustainment is “the” critical limitation for all operations***
- ***Limited resources capable of operating in austere environment***
- Specialists take time to develop (SAR, Maritime Operations etc)
- Modern communication infrastructure does not extend over the entire Arctic
- Insufficient forward operating locations
- Maintaining awareness challenging in remote locations
- Technical challenges in a harsh and dynamic RF spectrum including phenomena such as the "Aurora Borealis"



Key Support Challenges



- Vast distance from military bases in southern Canada
- Harsh environment - Sparsely populated - Limited infrastructure
- Need to support wide variety of increasing military activity:
 - Joint sovereignty exercises (ex. Op NANOOK)
 - Contingency operations (ex. MAJAJD)
 - New permanent installations coming on line in 2015 in addition to CF Alert and Fort Eureka (Naval Refuelling Facility at Nanisivik; and Arctic Training Centre at Resolute Bay)
- Short Campaign season (June – October)



Canadian Forces Infrastructure





Organization

CANOSCOM



HSS/CIS



CFJSG



CFJSR



CMSG



OS Engr Gp



OS MP Gp



3 CSU



CFPU



4 CFMCU



Supply Depots



Ammo Depots



1 ESU



CFPSU



Work Horse of the North



A Canadian Forces CC-138 Twin Otter from 440 Squadron, Yellowknife, stops in to resupply a 1st Canadian Ranger Patrol Group (1 CRPG) patrol with food and fuel between Eureka and McClintock Inlet, Ellesmere Island, Nunavut. The patrol was part of OP NUNALIVUT 08. OP NUNALIVUT is one of three major sovereignty operations conducted each year by the Canadian Forces in Canada's North.